

FIG. 1

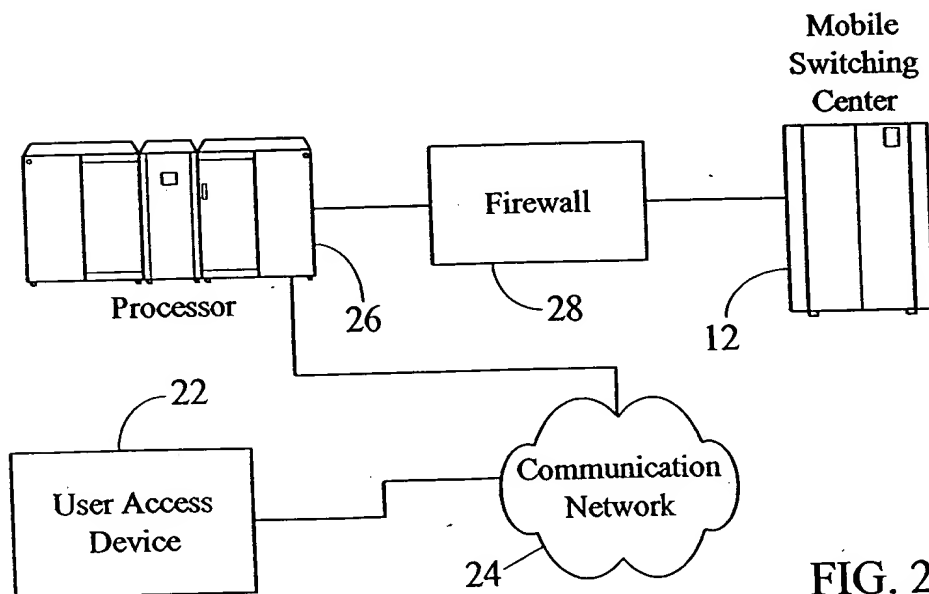


FIG. 2

005221-2.tif 5.60

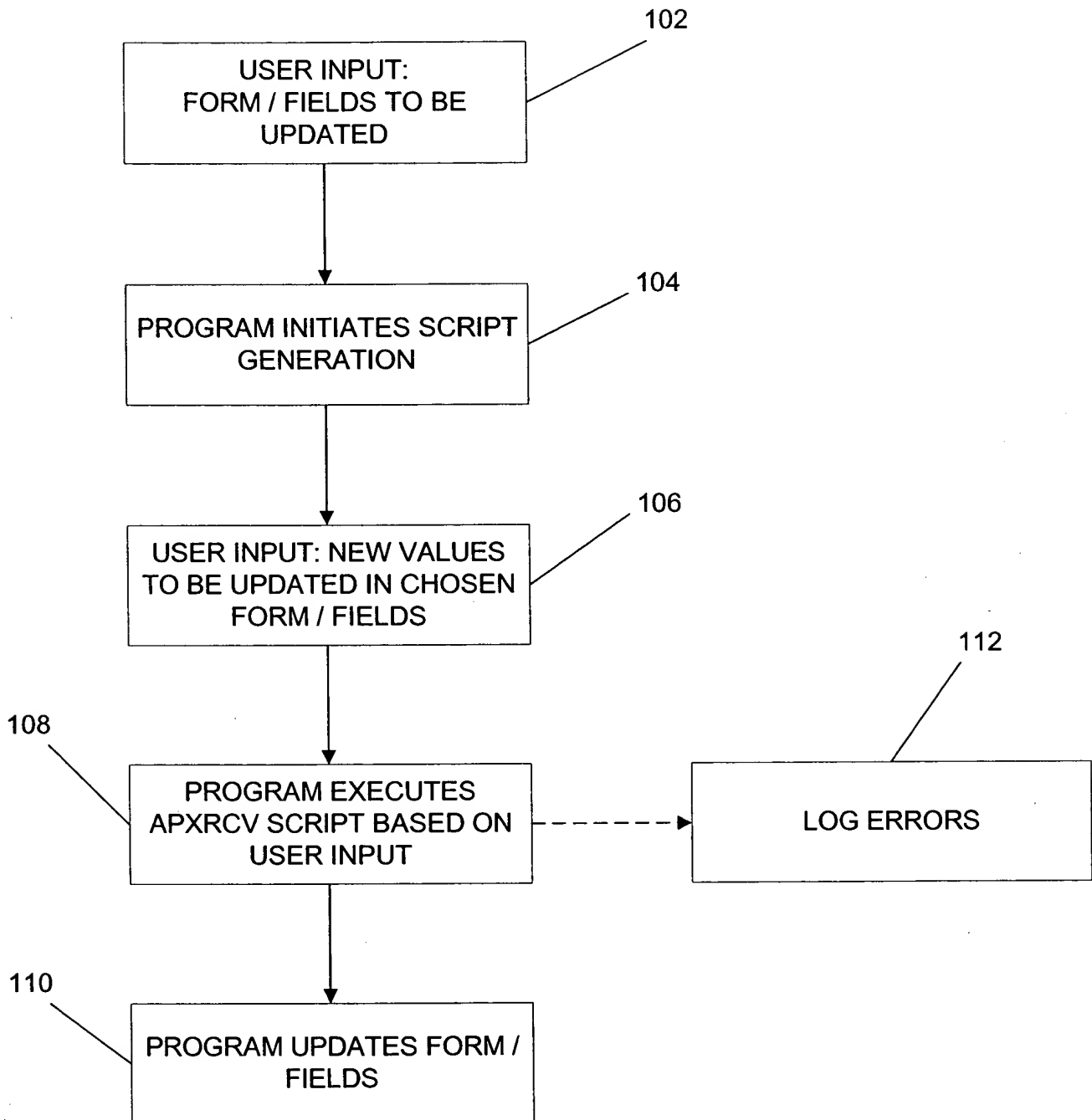


FIG. 3

```

graph TD
    122[RF FREQUENCY GROUP GENERATES DATA FILES] --> 124[DATA FILES INPUT TO MAIN PROGRAM]
    124 --> 126[CREATE FILES:  
ctmret.i  
tpptmret.i  
dcchret.i  
dcchrad.i  
ceqsuret.i  
reselret.i  
fciret.i]
    126 --> 128[SEND FILE dcchrad.i TO ECP]
    128 --> 130[CREATE APXRCV SCRIPT FILES:  
E1dcch.ret  
E1ctm.ret/E1tppt.ret]
    130 --> 132[CHECK FOR PCS SYSTEM]
    132 -- NO --> 134[CREATE APXRCV SCRIPT FILE  
E1ceqsu.ret]
    132 -- YES --> 136[CREATE APXRCV SCRIPT FILE  
E1resel.ret]
    134 --> 136
    136 --> A((A))

```

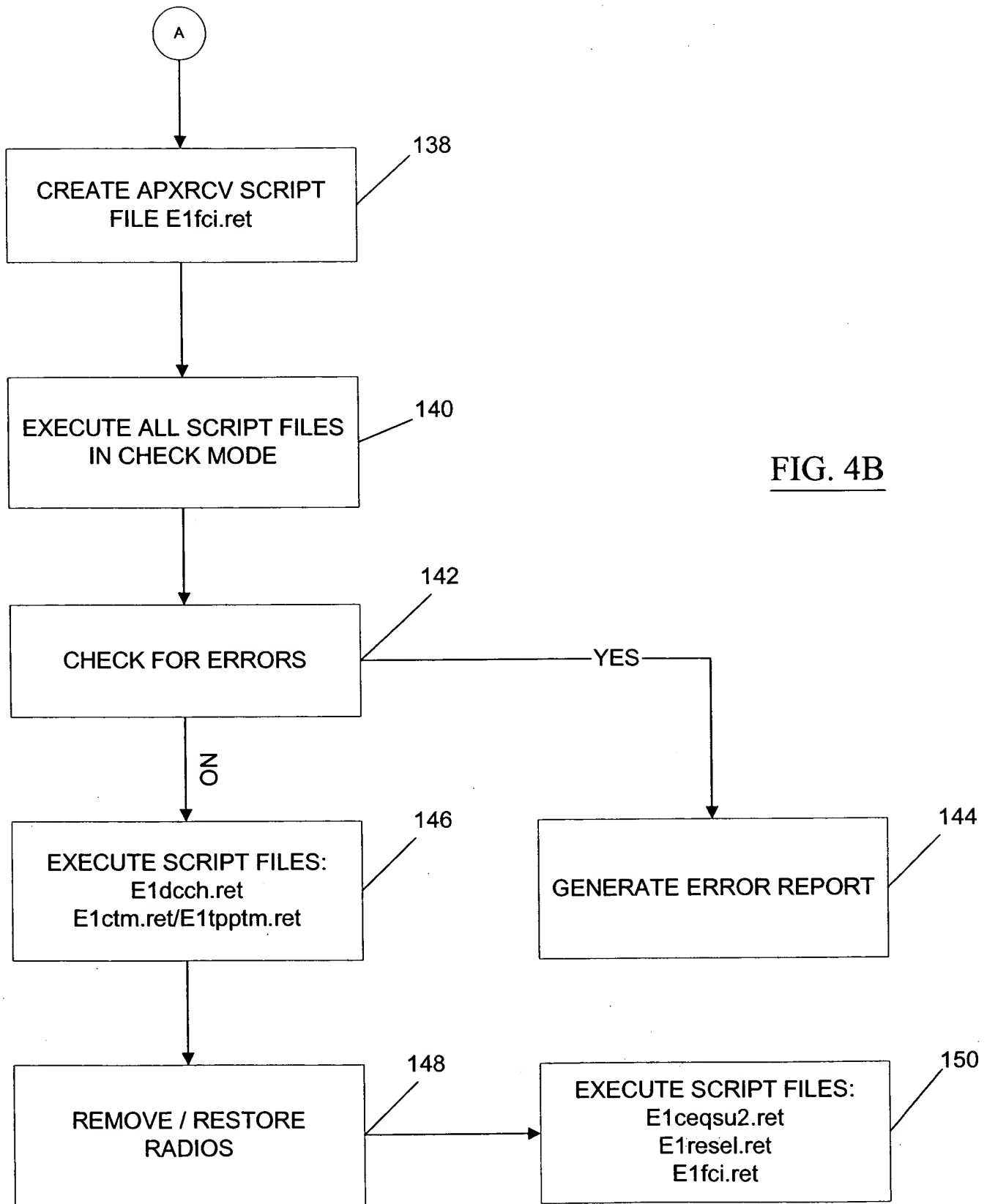


FIG. 4B

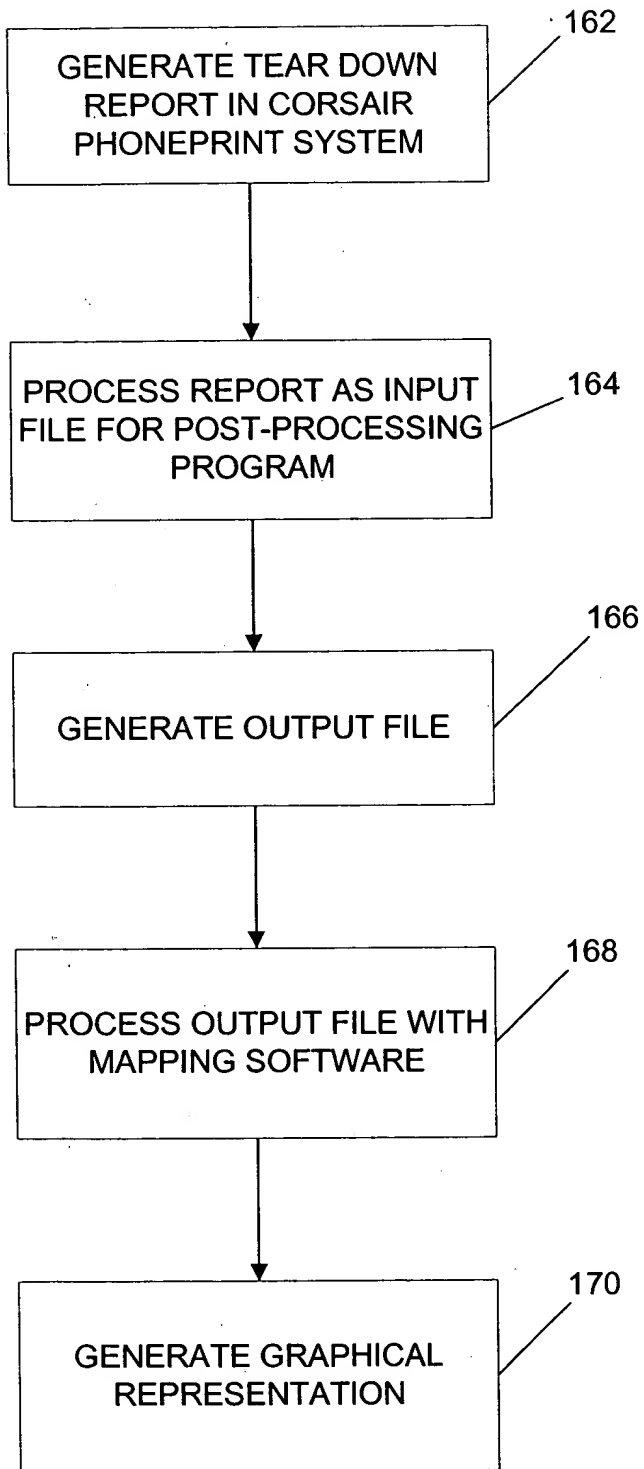


FIG. 5

00622T-1545460

>pg pp9912.txt

Date	Time(2)	Site_ID	MIN(1)	Dialed_Digits	Tear-Down_Reason	
12/25/99	19:26:09	20		2012075854	12014981322	MFG
12/23/99	14:56:20	219		2012075854	5617767114	MFG
12/26/99	21:40:32	167		2012130072	19547814445	MFG
12/23/99	19:06:49	82		2012134416	9544289147	MFG
12/23/99	19:06:23	82		2012134416	9544289147	MFG
12/25/99	17:23:55	82		2012134416	9544285083	MFG
12/25/99	15:06:20	82		2012134416	2015680907	MFG
12/25/99	13:04:16	82		2012134416	2015680907	MFG
12/25/99	13:04:05	82		2012134416	2015680907	MFG
12/25/99	13:03:53	82		2012134416	2015680907	MFG
12/25/99	13:03:31	82		2012134416	2015680907	MFG
12/25/99	13:01:49	82		2012134416	2015680907	MFG
12/25/99	12:53:38	82		2012134416	2015680907	MFG
12/25/99	12:52:32	82		2012134416	2015680907	MFG
12/25/99	12:52:03	82		2012134416	2015680907	MFG
12/25/99	12:50:48	82		2012134416	2015680907	MFG
12/25/99	12:48:15	82		2012134416	2015680907	MFG
12/25/99	12:47:16	82		2012134416	5680907	MFG
12/24/99	11:58:50	82		2012134416	8003328463	MFG
12/24/99	11:58:08	82		2012134416	8003328463	MFG
12/24/99	10:03:16	82		2012134416	9544289147	MFG
12/22/99	14:58:09	80		2012300764	19546467166	MFG
12/29/99	10:54:28	177		2012400657	19086881800	MFG
12/29/99	10:51:49	177		2012400657	9412503698	MFG
12/29/99	10:25:04	145		2012400657	12012400657	MFG
12/29/99	10:24:42	145		2012400657	12012400657	MFG
12/27/99	21:26:01	49		2012476225	15616551115	MFG
12/24/99	19:22:48	219		2012476225	15615551212	MFG
12/24/99	19:22:26	219		2012476225	15615551212	MFG
12/24/99	19:22:06	219		2012476225	15615551212	MFG
12/24/99	19:13:38	219		2012476225	5617950022	MFG
12/27/99	12:01:06	20		2012476225	15614996976	MFG
12/23/99	16:23:47	12		2012640686	3105152822	MFG
12/23/99	16:17:19	12		2012640686	3105152822	MFG
12/23/99	16:17:03	12		2012640686	3105152822	MFG

FIG. 6

00622T 454560

```
>pg map1239
ECP,CellNo,Longitude,Latitude,Count
4.1,-80.1675,26.155278,148
3.5,-80.361111,25.699444,209
1.6,-80.171667,26.36.675
1.7,-80.114167,26.562778,173
1.8,-80.109722,26.760556,76
3.9,-80.317222,25.679444,311
3.10,-80.266667,25.747222,115
4.12,-80.29,26.183333,268
3.13,-80.422778,25.526111,164
4.15,-80.123056,25.854167,510
4.16,-80.198611,26.248889,401
1.18,-80.088889,26.45,380
1.20,-80.058611,26.651944,216
4.22,-80.210833,25.848611,138
4.23,-80.128889,26.085833,844
4.25,-80.288889,25.845556,55
1.26,-80.201111,26.630833,251
4.27,-80.204722,25.93,590
3.28,-80.360833,25.596667,255
3.29,-80.333889,25.649444,584
4.30,-80.415,26.086389,207
4.31,-80.175833,26.121944,128
1.37,-80.681389,26.686667,213
4.40,-80.364444,25.828333,156
4.42,-80.286944,25.920556,147
4.43,-80.168056,26.024722,333
3.46,-80.129167,25.793611,2694
3.47,-80.238611,25.811389,121
1.49,-80.051667,26.711944,381
4.50,-80.160556,25.908611,187
4.52,-80.26,26.121667,456
4.53,-80.105556,26.136389,501
3.54,-80.383333,25.653056,81
4.55,-80.249444,26.268333,314
3.56,-80.294722,25.703889,184
3.57,-80.315,25.808333,21
3.58,-80.265278,25.788333,267
4.60,-80.25,25.891667,205
4.61,-80.090833,26.230278,147
4.64,-80.211667,26.0175,595
```

FIG. 7

006227 25457 12900

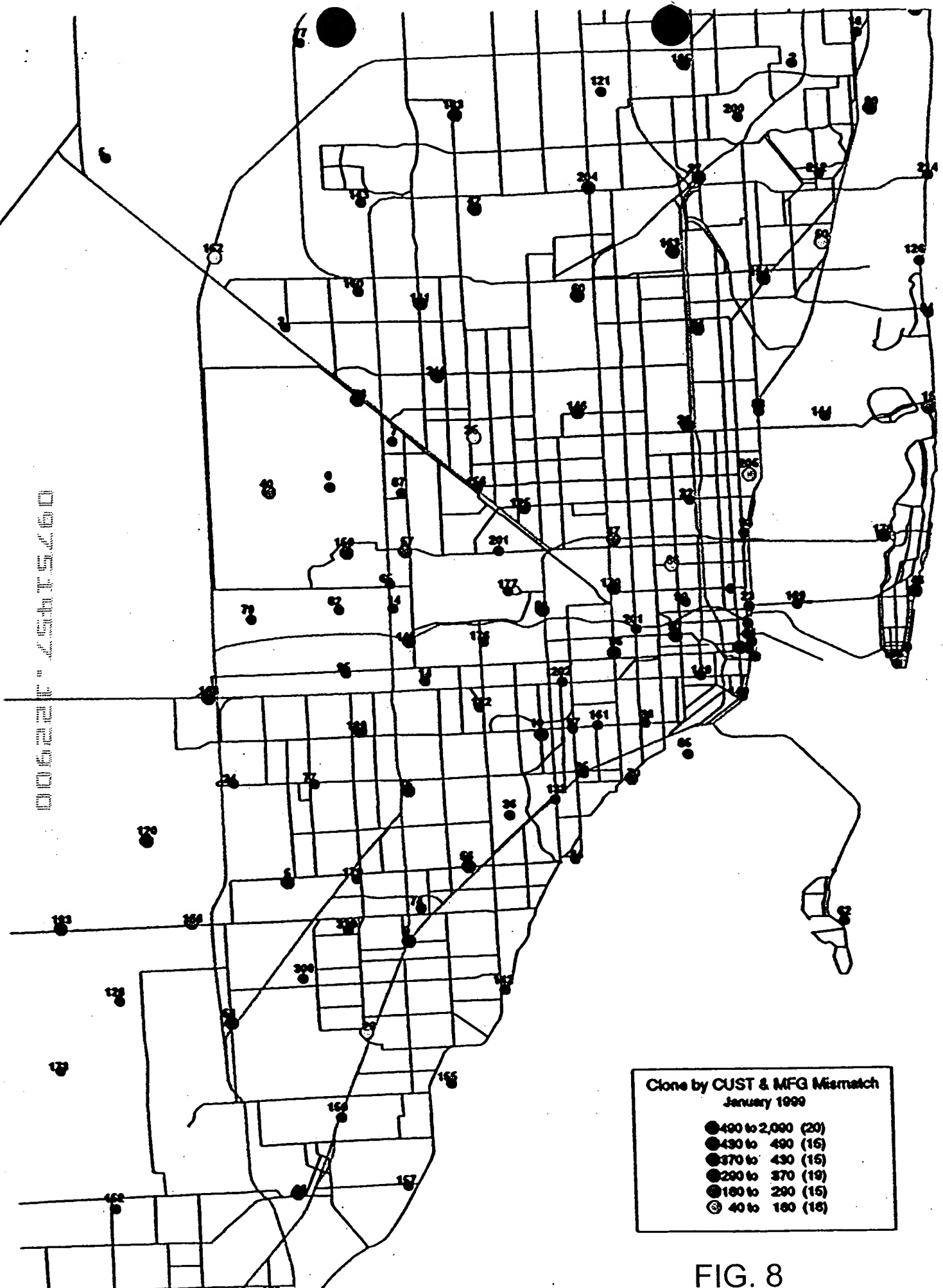


FIG. 8

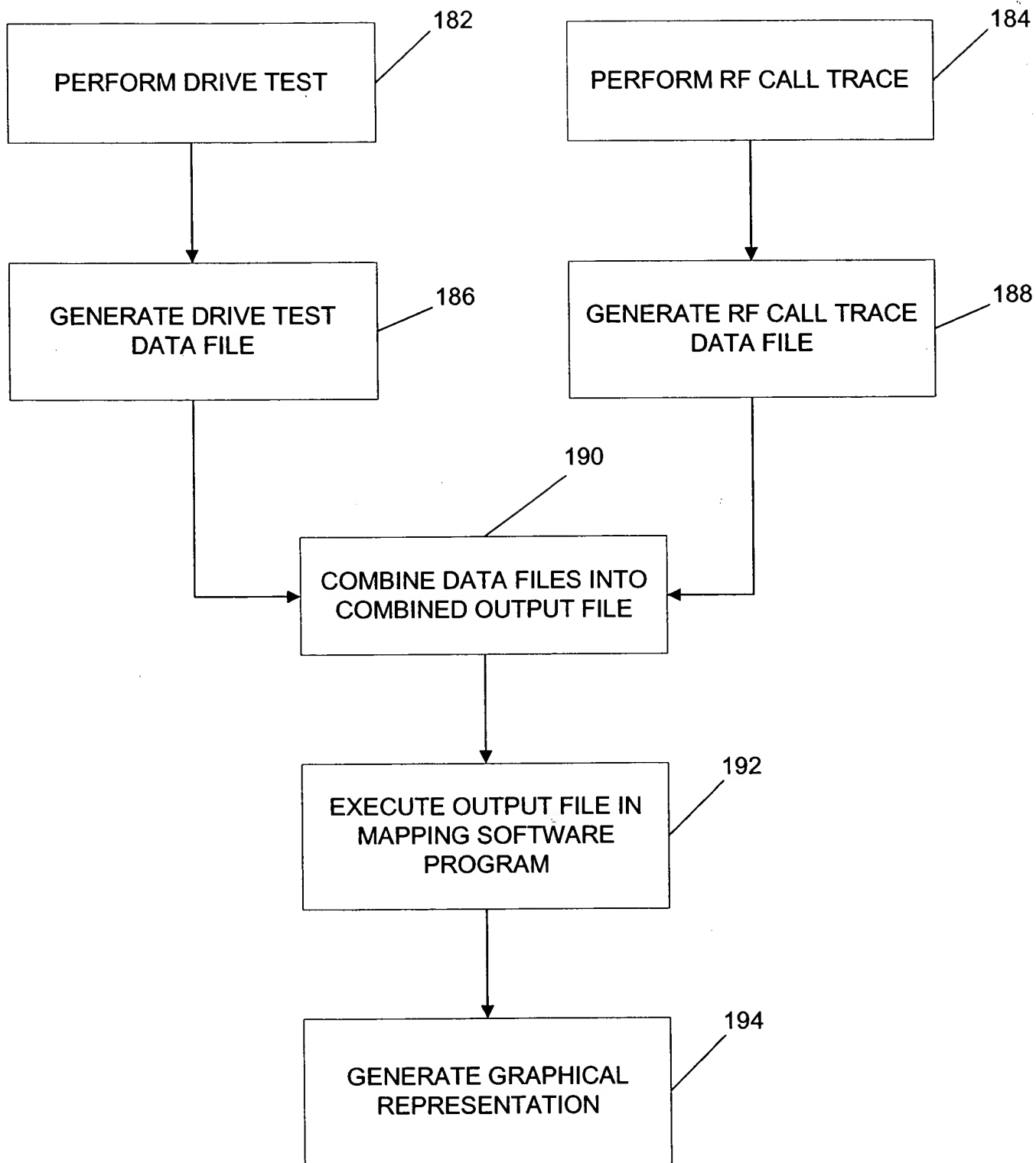


FIG. 9

SAMPLE Ericsson log

MOBILE TELEPHONY CELL TRAFFIC RECORDING
DIGITAL SIGNAL STRENGTH MEASUREMENTS

MSNB	CELL	DEV	SSFVC	SSRVC
9412580201	T017C	MDVC-1060	23	20
SSSTRVC	BERFVC	BERRVC	RBERRVC	FERRVC
6	3	2	2	0
BQRVC	TDRVC	FREQERR	TIMEALIGN	MSPOW
15	0	1	0	2
NCELL	NSSFFMC	MEASCHAN	VIND	
T017A	5	1260	Y	
T017B	23	1272	Y	
T006B	17	1300	Y	
T016B	13	1305	Y	
T004A	29	1251	Y	
T005B	33	1302	Y	
T005A	23	1290	Y	
T018A	21	1294	Y	
T154B	21	1303	Y	
TIME	PRINTIND	FCODE		
11:08:27	0			

END

MOBILE TELEPHONY CELL TRAFFIC RECORDING CANDIDATE LIST FOR
HANDOFF

MSNB	CELL	TIME	FCODE	URGENCY
9412580201	T017C	11:08:27		0
CANDCELL	CELLTYPE	NTYPE	RATING	
T005B	0	STD	0	

END

FIG. 10

00622T 122900

THE BIBLE IN THE 21ST CENTURY

FIG. 11A

FT
--

R, RBER, FER, BQ, TD, FREQ, TIME, MS, PRINT
DEV, FVC, RVC, TDRVC, FVC, RVC, RVC, RVC, RVC, RVC, ERR, ALIG

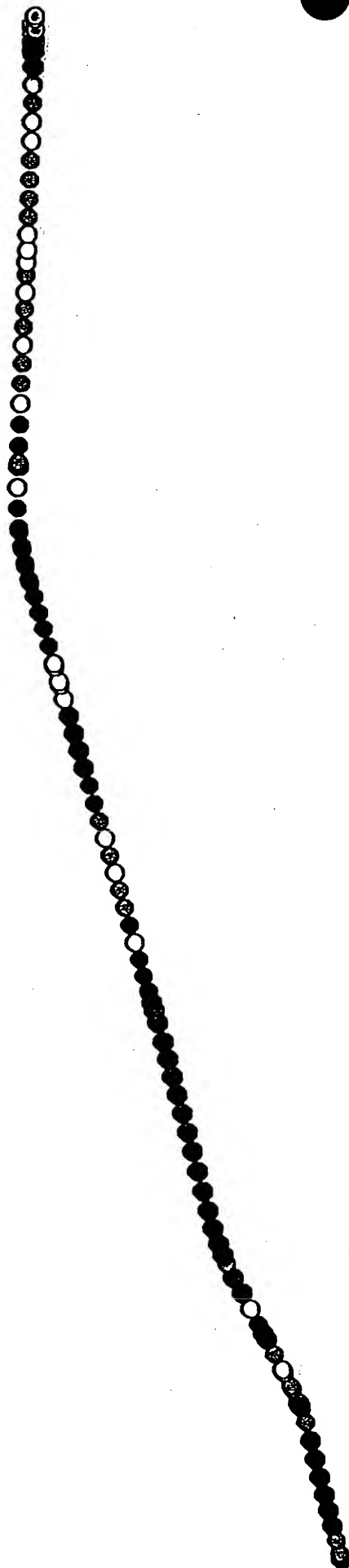
28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0070392,9412580201,T005B,MDVC-
2,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
992,9412580201,T005B

FIG. 11B

00622T 4545450

00622T" 454T5460

FIG. 12



xe1_0dd by FVC-118

●	75 to 81	(34)
○	79 to 78	(45)
⊗	83 to 79	(46)
⊙	85 to 83	(27)
⊕	85 to 85	(47)

Comarco File

13:20:00.8,26.677,-81.567
13:20:01.2,25.230,-81.456
.....
.....
.....
13.21.00.3,28.655,-81.2128

FIG. 13A

00622T" 25457 122900

00622T 2545Z

Time,Long,Lat,CellNo,SS,

12:41:29,28.6559300,-81.205792000,1353,-124
12:41:29,28.6559300,-81.205792000,201,-106
12:41:29,28.6559300,-81.205792000,32,-106
12:41:29,28.6559300,-81.205792000,321,-76
12:41:29,28.6559300,-81.205792000,323,-66
12:41:29,28.6559300,-81.205792000,831,-100
12:41:30,28.6559260,-81.205580000,323,-66
12:41:31,28.6559170,-81.205380000,321,-75
12:41:31,28.6559170,-81.205380000,321,-75
12:41:31,28.6559170,-81.205380000,323,-64
12:41:32,28.6559080,-81.205198000,323,-63
12:41:33,28.6558950,-81.204922000,321,-73
12:41:33,28.6558950,-81.204922000,323,-62
12:41:34,28.6558900,-81.204769000,321,-73
12:41:34,28.6558900,-81.204769000,321,-73
12:41:34,28.6558900,-81.204769000,322,-98
12:41:34,28.6558900,-81.204769000,323,-61
12:41:35,28.6558900,-81.204577000,1353,-124
12:41:35,28.6558900,-81.204577000,201,-105
12:41:35,28.6558900,-81.204577000,202,-106
12:41:35,28.6558900,-81.204577000,32,-105
12:41:35,28.6558900,-81.204577000,323,-63
12:41:35,28.6558900,-81.204577000,831,-99
12:41:37,28.6558970,-81.204219000,321,-73
12:41:37,28.6558970,-81.204219000,323,-67
12:41:38,28.6559000,-81.204044000,321,-74
12:41:38,28.6559000,-81.204044000,323,-67
12:41:38,28.6559000,-81.204044000,321,-74
12:41:38,28.6559000,-81.204044000,323,-67
12:41:40,28.6559020,-81.203683000,1353,-122
12:41:40,28.6559020,-81.203683000,202,-104
12:41:40,28.6559020,-81.203683000,32,-105
12:41:40,28.6559020,-81.203683000,321,-73
12:41:40,28.6559020,-81.203683000,322,-96
12:41:40,28.6559020,-81.203683000,323,-67
12:41:41,28.6559070,-81.203457000,321,-72
12:41:41,28.6559070,-81.203457000,323,-66
12:41:42,28.6559100,-81.203125000,321,-71
12:41:42,28.6559100,-81.203125000,323,-66

FIG. 13B

005221" 2545460

```

v----- Record # 1: -----v
05/10/99 13:22:05 ALM INF 4103 7 32 G TC 457
Call Monitor: Call Record has been Written in RAM disk
Ph#:(407)9223002 Call clear by MS - mobile clear
v----- Record # 2: -----v
05/10/99 13:22:04 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -77 attn 4 snr 40
v----- Record # 3: -----v
05/10/99 13:22:04 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -73
v----- Record # 264: -----v
05/10/99 13:21:00 ALM INF 4117 7 20 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 201 / -98
v----- Record # 265: -----v
05/10/99 13:21:00 ALM INF 4117 7 32 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 322 / -103
v----- Record # 266: -----v
05/10/99 13:21:00 ALM INF 4117 7 83 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 831 / -96
v----- Record # 267: -----v
05/10/99 13:21:00 ALM INF 4117 7 32 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 321 / -78
v----- Record # 268: -----v
05/10/99 13:21:00 ALM INF 4117 7 135 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 1353 / -113
v----- Record # 269: -----v
05/10/99 13:21:00 ALM INF 4117 7 20 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 202 / -100
v----- Record # 270: -----v
05/10/99 13:21:00 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -72 attn 4 snr 40
v----- Record # 271: -----v
05/10/99 13:21:00 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -71
v----- Record # 272: -----v
05/10/99 13:21:00 ALM INF 4117 7 3 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 32 / -115

```

FIG. 14

00528T 2545460



FIG. 15

tra0528_out by SS

- -65 to -66 (600)
- -62 to -65 (534)
- -60 to -62 (466)
- -106 to -68 (540)
- -116 to -106 (482)
- -127 to -116 (566)